

## KEYBOARD CONTROL PANEL BUTTON SUMMARY

April 15, 1985

This section contains a list of all buttons on the Velocity/Pressure Keyboard Unit and their functions. Some buttons are under development; these are marked by an asterisk (\*).

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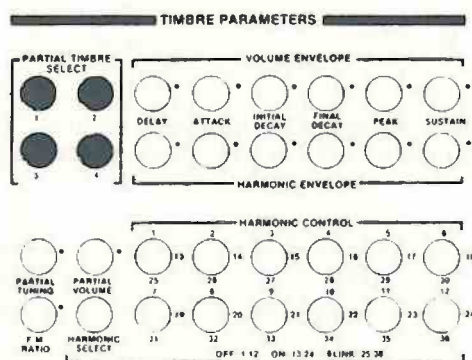


## PANEL 1: TIMBRE PARAMETERS

The timbre parameter buttons, located on the first panel, are used primarily for synthesizing timbres. At this time, the HARMONIC CONTROL buttons, located on the bottom half of the panel, are also used to change the pitch of keys on the keyboard. This dual function will change in future releases.

### PARTIAL TIMBRE SELECT Buttons

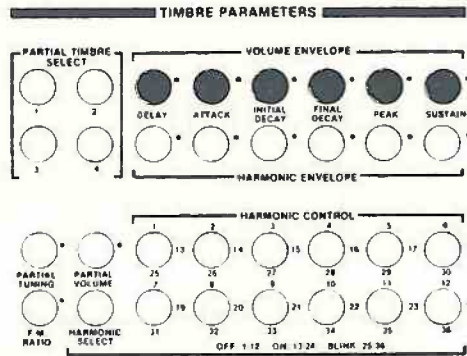
Partial timbres are selected and programmed using the PARTIAL TIMBRE SELECT buttons. For details, see the section on partial timbre programming in "Timbre Design."



BUTTON	USE	FUNCTION
PARTIAL TIMBRE SELECT buttons	Press one or more buttons once.	Selects partial timbre(s) for programming.
	Press one or more buttons twice.	Selects partial timbre(s) for programming or for soloing on keyboard.
	Hold down one or more buttons, turn knob.	Selects timbre frame for programming on selected partial timbre(s).
	Hold down one or more buttons, press START.	Inserts timbre frame after selected frame on selected partial timbre(s).
	Hold down one or more buttons, press STOP.	Deletes selected timbre frame on selected partial timbre(s).
	Hold down one or more buttons, press BOUNCE.	Prepares selected timbre frame for bouncing to newly created frame.

## VOLUME ENVELOPE Buttons

The VOLUME ENVELOPE buttons are used to program volume envelope parameters for Timbre Frame 0 (zero) after the partial timbre or timbres has been selected. They are also used to set parameters of non-zero timbre frames. For details, see the sections on partial timbre programming and timbre frame construction in "Timbre Design."



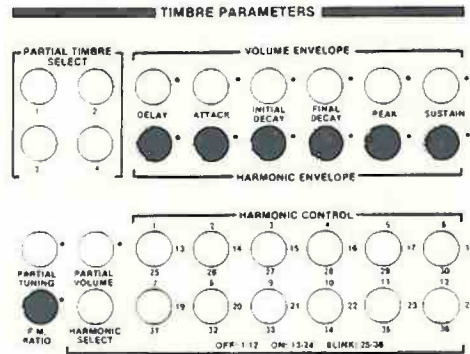
Note that the function of the button depends upon whether you have selected Frame 0 (zero) or a non-zero frame with the PARTIAL TIMBRE SELECT buttons.

BUTTON	USE	FUNCTION
VE DELAY	Select Frame 0, press button once, turn knob.	Programs delay time for attack.
	Select non-zero frame, press button once, turn knob.	Adds delay to front of selected frame.
VE ATTACK	Select Frame 0, press button once, turn knob.	Programs attack time.
	Select non-zero frame, press button once, turn knob.	Sets splice time between waveforms.
VE INITIAL DECAY	Select Frame 0, press button once, turn knob.	Programs initial decay time.
	Select non-zero frame, press button once, turn knob.	Sets logarithmic or linear splice type.

BUTTON	USE	FUNCTION
VE FINAL DECAY	Select Frame 0, press button once, turn knob	Programs final decay time.
	Select non-zero frame, press button once, turn knob.	Sets range for pitch randomness.
VE PEAK	Select Frame 0, press button once, turn knob.	Sets Frame 0 peak volume level.
	Select non-zero timbre frame, press button once, turn knob.	Sets non-zero frame peak volume level.
VE SUSTAIN	Select Frame 0, press button once, turn knob.	Sets Frame 0 sustain volume level.
	Select non-zero frame, press button once, turn knob.	Changes volume for all non-zero frames.

## HARMONIC ENVELOPE Buttons

The HARMONIC ENVELOPE buttons are used to program frequency modulation parameters after the partial timbre has been selected. They are also used to set parameters of non-zero timbre frames. For details, see the sections on frequency modulation and timbre frame construction in "Timbre Design."



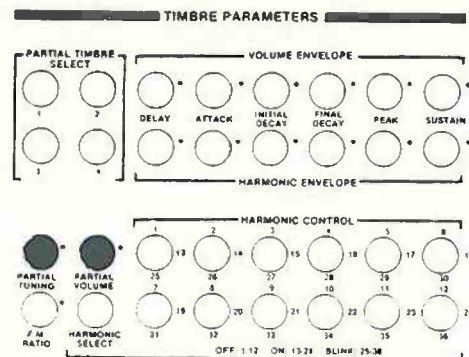
Note that the function of each button depends on whether Frame 0 (zero) or a non-zero frame has been selected with the PARTIAL TIMBRE SELECT buttons.

BUTTON	USE	FUNCTION
F.M. RATIO	Press once, turn knob.	Positive value sets modulator to carrier frequency ratio; negative value sets fixed modulator frequency.
HE DELAY	Select Frame 0, press button once, turn knob.	Programs FM delay time.
HE ATTACK	Select Frame 0 press button once, turn knob.	Programs FM attack time.
HE INITIAL DECAY	Select Frame 0 press button once, turn knob.	Programs FM initial decay time.
HE FINAL DECAY	Select Frame 0, press button once, turn knob.	Programs FM final decay time.

BUTTON	USE	FUNCTION
HE PEAK	Select Frame 0, press button once, turn knob.	Programs FM peak volume level.
	Select non-zero frame, press button once, turn knob.	Sets pitch offset for selected timbre frame.
HE SUSTAIN	Select Frame 0, press button once, turn knob.	Programs FM sustain level.
	Select non-zero frame, press button once, turn knob.	Turns on looping function for timbre frame looping; selects first frame in loop.

#### PARTIAL TUNING and VOLUME Buttons

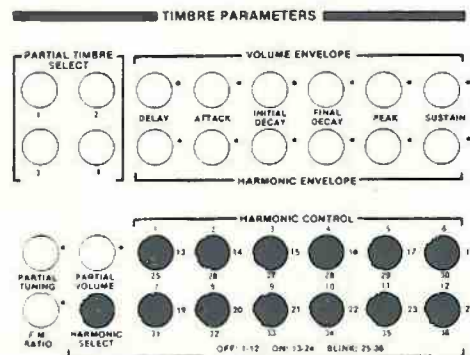
These buttons are used to program the pitch and volume of selected partial timbres. For details, see the section on adding special effects in "Timbre Design."



BUTTON	USE	FUNCTION
PARTIAL TUNING	Press once, turn knob; or press repeatedly.	Changes tuning base for select partial timbre(s).
PARTIAL VOLUME	Press once turn knob.	Changes overall volume for partial.

## HARMONIC CONTROL Buttons

The HARMONIC CONTROL buttons are used to program the waveform characteristics of the selected partial timbres and timbre frames. Both harmonic coefficients and phase offset can be programmed. When Frame 0 (zero) is selected, the initial waveform will be programmed. When a non-zero frame is selected, the splicing waveform will be programmed. For details, see the section on partial timbre programming in "Timbre Design."



The HARMONIC CONTROL buttons are also used to assign non-tempered frequencies to the keyboard (when the SCALE ADJUST:PITCH CLASS button on the second panel is lit). See the section on special keyboard tuning in the tabbed section "Keyboard Control and Real-Time Effects."

BUTTON	USE	FUNCTION
*HARMONIC SELECT	Press once, turn knob; or press repeatedly.	Selects harmonic group.
HARMONIC SELECT (current version)	Press button once. Press button twice.  Press once.	Selects harmonic group 1-12. Selects harmonic group 13-24.  Restores harmonic coefficient function to HARMONIC CONTROL buttons after they have been used for scale adjust function.

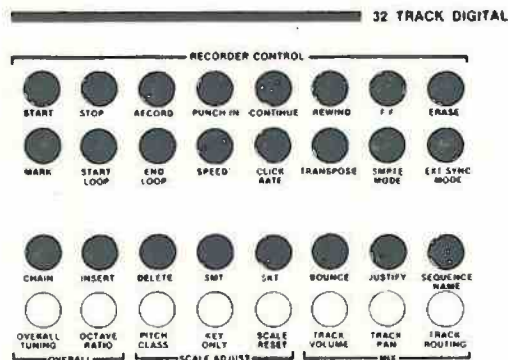


BUTTON	USE	FUNCTION
HARMONIC CONTROL buttons	Hold one or more buttons, press HARMONIC SELECT.	Toggles HARMONIC CONTROL buttons between lit and blinking modes.
(Lit state)	Press one or more buttons, turn knob.	Programs volume level of selected harmonic(s).
(Blinking state)	Press one or more buttons, turn knob.	Programs phase value for selected harmonics. (Phase cannot be set on first harmonic of Frame 0.)
(Lit or blinking)	Press once, turn knob	When SCALE ADJUST:PITCH CLASS button is lit, changes pitch of corresponding pitch class.

## PANEL 2: RECORDER CONTROL AND KEYBOARD TUNING

### Recorder Control

The recorder control buttons are used to operate the memory recorder. For details on these buttons, see the tabbed section "Memory Recorder" and "External Synchronization" in the tabbed section "Studio Interfaces."



BUTTON	USE	FUNCTION
START	Press once.	Starts sequence playback at first click.
	Press twice.	Starts sequence playback at first note.
STOP	Press once.	Stops recording or playback of sequence.
RECORD	Press once.	Starts recording on blinking track. If none are soloed, system will select first track with same timbre as keyboard timbre. If none, then first empty track.
PUNCH IN	Press once.	Erases notes on selected track and allows recording of new notes over them.
	Press again.	Stops erasing.

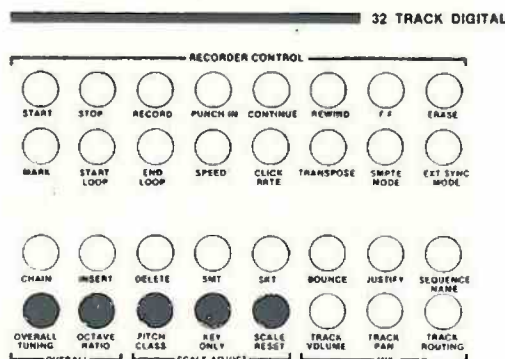
BUTTON	USE	FUNCTION
CONTINUE	Press once.	Plays sequence from previous STOP point. When sequence is playing, specifies startloop point on selected track.
REWIND	Press once.	Plays sequence backward in fast mode with volume muting.
	*Press twice.	Plays sequence backward in fast mode to next defined mark.
F.F.	Press once.	Plays sequence forward in fast mode with volume muting.
	*Press twice.	Plays sequence forward in fast mode to next defined mark.
ERASE	Press twice	Erases sequence from all tracks.
	Press twice with soloed tracks	Erases notes from selected tracks.
*MARK	----	To be defined.
*START LOOP	Press button at time of loop start.	Places starting loop point on selected track(s).
END LOOP	Press button at time of loop end.	Places ending loop point on selected track(s).
SPEED	Press once, turn knob.	Changes speed of sequence without changing pitch.
	Press twice.	Adjusts timing for clicks-in-frame mode.

BUTTON	USE	FUNCTION
CLICK RATE	Press once, turn knob.	Sets click track rate in beats-per-minute mode.
	Press twice, turn knob.	Sets click track rate in click period mode.
	Press thrice.	Turns off click track.
	Press while holding down TRACK SELECT button.	Toggles display of starting note on selected track between beats and milliseconds.
TRANSPOSE	Press once, play note above or below middle C.	Transposes sequence up or down by interval of note played to middle C. If track is soloed, transposes only track.
	Press button again.	Takes keyboard out of transpose mode.
SMPTE MODE	Press and hold SMPTE while you press EXT SYNC MODE	Activates SMPTE mode.
EXT SYNC MODE	Press once.	Selects 50 Hz external synchronization mode.
	Press twice.	Selects beat sync external synchronization mode.
	Press twice, turn knob.	Programs sync delay.
*CHAIN	----	To be defined.
*INSERT	----	To be defined.
*DELETE	----	To be defined.

BUTTON	USE	FUNCTION
SMT	Press once, then press TRACK SELECT button, then press either:  SKT or TRACK SELECT button or TIMBRE ENTRY button followed by numbered button.	Replaces timbre on selected track with:  keyboard timbre, or timbre from track, or timbre from bank.
SKT	Press once then press TRACK SELECT button.	Moves timbre from selected track to keyboard.
BOUNCE	Press once, then press originating TRACK SELECT button once, then destination TRACK SELECT button.  Press once, then press originating TRACK SELECT button twice, then destination TRACK SELECT button.	Performs erasing bounce.  Performs non-erasing
BOUNCE	Press twice.  Hold button, turn knob.	Places recorder in justified mode.  Sets click rate multiplier to justify to fractions of a click.
*JUSTIFY	Press button twice.  Hold button, turn knob.	Places recorder in justified mode.  Sets click rate multiplier to justify to fractions of a click.
*SEQUENCE NAME	Hold button, turn knob  Press button, turn knob while not holding button.	Selects letter of name to to changed. Selected letter will flash.  Changes selected letter of name.

## Keyboard Tuning Controls

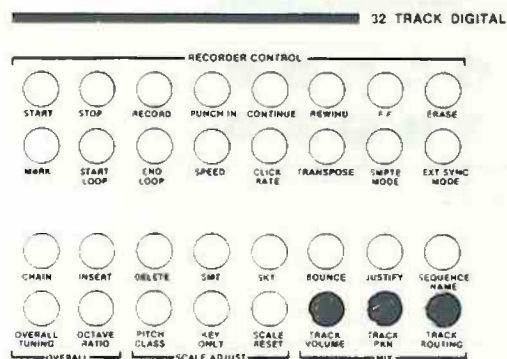
The keyboard tuning controls are used to change the tuning of the keyboard. For details, see the section on special keyboard tuning in the tabbed section "Keyboard Control and Real-Time Effects."



BUTTON	USE	FUNCTION
OVERALL TUNING	Press once, turn knob.	Changes overall pitch of keyboard in 0.1 Hz increments.
	Press button repeatedly.	Makes octave jumps in tuning.
OCTAVE RATIO	Press once, turn knob.	Changes octave ratio.
	Press twice.	Resets octave ratio to normal scale.
SCALE ADJUST: PITCH CLASS (currently)	Press once.	Assigns scale adjust function to HARMONIC CONTROL buttons.
SCALE ADJUST: * PITCH CLASS	Hold button, press key, then turn knob.	Changes the tuning of all keys of that pitch class.
SCALE ADJUST: * KEY ONLY	Hold button, press key, then turn knob.	Changes the tuning of selected key only.
SCALE RESET	Press twice.	Restores tempered tuning for all pitches.
	Press once.	Activates knob-controlled tone bend.
	Hold down button, turn knob.	Changes pitch bend depth.

## Track Mixing Controls

The Track Mixing Controls are designed for use with the Multichannel Distributor.

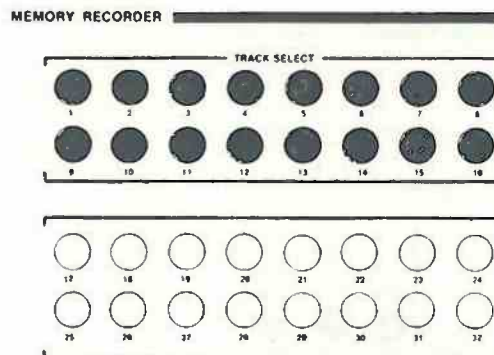


BUTTON	USE	FUNCTION
TRACK VOLUME	Press and hold down while you press TRACK SELECT button, turn knob.	Adjusts volume of selected track.
	Press and hold down while you press a key on keyboard, turn knob.	Adjusts volume of keyboard relative to track volume.
*TRACK PAN	---	To be defined.
TRACK ROUTING	Press and hold down while you press TRACK SELECT button, turn knob.	Routes selected track to selected channel of Multichannel Distributor.
	Press and hold down while you press a key on keyboard, turn knob.	Routes keyboard to selected channel of Multichannel Distributor.



### PANEL 3: TRACK SELECT BUTTONS

There are 32 TRACK SELECT buttons. At present, only sixteen tracks are available for recording.



When all TRACK SELECT lights are out, all tracks will be heard on playback. When one or more TRACK SELECT buttons are lit or blinking, those selected tracks will be heard on playback.

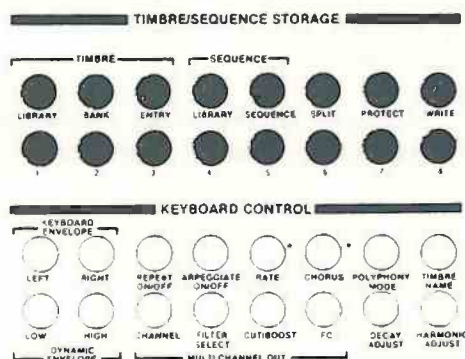
When recording, a blinking TRACK SELECT button indicates the track on which the notes are being recorded. If no other TRACK SELECT buttons are lit, all tracks will be heard as you record. If one or more TRACK SELECT buttons are lit, only those selected tracks will be heard as you record.

BUTTON	USE	FUNCTION
TRACK SELECT buttons	Press once.	Solos selected track for recording or playback.
	Press again.	Unsolos selected track.
	Press and hold, turn knob.	Slides all notes on selected track forward or backward. If recorder is in justified mode, slides notes in one-beat increments. If recorder is in unjustified mode, slides notes in five-millisecond increments.



#### PANEL 4: TIMBRE/SEQUENCE STORAGE

The buttons in the upper half of the fourth panel are used to recall and store timbres and sequences. The top row is used to select what type of information is to be recalled or stored (either TIMBRE LIBRARY, BANK, ENTRY, or SEQUENCE LIBRARY or SEQUENCE). The numbered buttons in the bottom row are used to perform the actual store or recall of a particular timbre, bank, library or sequence.



#### Timbre Recall

Timbres are grouped into up to 8 entries for each bank and up to 8 banks for each subcatalog or diskette. At present, the TIMBRE LIBRARY button can only be use to access the diskette in the MAIN drive (F0). In future releases, the TIMBRE LIBRARY button will access other drives and subcatalogs.

BUTTON	USE	FUNCTION
TIMBRE LIBRARY (current version)	Press TIMBRE BANK, then press and hold LIBRARY, then press Button 1-8.	Accesses MAIN drive (F0) for timbre storage or recall.
*TIMBRE LIBRARY	Press once, then press Button 1-8.	Accesses drive or subcatalog corresponding to numbered button.
TIMBRE BANK	Press once, then press Button 1-8.	Places selected timbre bank into computer memory.
TIMBRE ENTRY	Press once, then press Button 1-8.	Recalls selected timbre from bank in memory to keyboard.

BUTTON	USE	FUNCTION
SPLIT	Press once, then recall timbre from bank or track.	Establishes split keyboard, placing selected timbre on upper keyboard.
	Press twice, then recall timbre from bank or track.	Establishes split keyboard, placing selected timbre on lower keyboard.
	Press once or twice, then press key, then recall timbre from bank or track.	Establishes split keyboard, with new split point.
	Press once or twice, then press key, then press STOP.	Sets new split point with same timbres.

### Sequence Recall

Sequences are also grouped into up to 8 entries for each subcatalog or diskette. As with the TIMBRE LIBRARY button, the SEQUENCE LIBRARY button can presently only be used to access the diskette in the MAIN drive (F0). In future releases, the SEQUENCE LIBRARY button will access other drives and subcatalogs.

BUTTON	USE	FUNCTION
SEQUENCE LIBRARY (current version)	After selecting SEQUENCE, press and hold, then press Button 1-8.	Accesses MAIN drive (F0) for sequence storage or recall.
*SEQUENCE LIBRARY	Press once, then press Button 1-8.	Accesses drive or subcatalog corresponding to numbered button.
SEQUENCE	Press once, then press Button 1-8.	Places selected sequence in memory recorder.

### Timbre/Sequence Storage

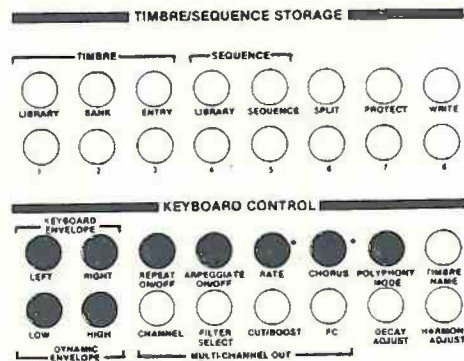
Timbres and sequences are stored using the same buttons as for recalling them plus the WRITE button and, in future releases, the PROTECT button. For details on timbre storage, see the section on storing in the tabbed section "Timbre Design." For details on sequence storage, see section on storing in tabbed section "Memory Recorder."

BUTTON	USE	FUNCTION
*PROTECT		Toggles the protection state of the current bank, entry, or sequence. If light is lit, bank, entry or sequence is write-protected. After setting protection state, WRITE timbre, bank, or sequence onto disk.
WRITE	First select BANK, ENTRY, or SEQUENCE. Then press and hold button, then press Button 1-8.	Writes the currently active bank, entry, or sequence to the specified location.

## PANEL 4: KEYBOARD CONTROL

### KEYBOARD CONTROL Buttons

The KEYBOARD CONTROL buttons allows you to describe how the system will respond to actions on the keyboard. Details on their use are in the tabbed section "Keyboard Control and Real-Time Effects."

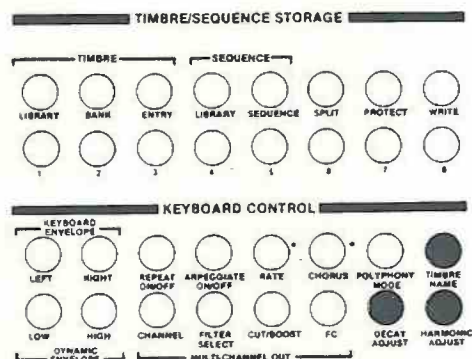


BUTTON	USE	FUNCTION
KEYBOARD ENVELOPE: LEFT	Hold down button, press one key.	Sets lower end of keyboard range for selected partial timbre.
	Hold down button, press two keys.	Sets lower end of keyboard range for selected partial timbre with a fade-out region between the two keys pressed.
KEYBOARD ENVELOPE: RIGHT	Hold down button, press one key.	Sets upper end of keyboard range for selected partial timbre.
	Hold down button, press two keys.	Sets upper end of keyboard range for selected partial timbre with a fade-out region between the two keys pressed.

BUTTON	USE	FUNCTION
REPEAT ON/OFF	Press button.	Toggles repeat mode on keyboard. When lit, notes are automatically repeated.
ARPEGGIATE ON/OFF	Press button.	Toggles arpeggiate mode on keyboard. When lit, chords will be automatically arpeggiated.
RATE	Press button, turn knob.	Changes repeat and/or arpeggiate rate.
CHORUS	Press button, turn knob.	Establishes and tunes overall chorus effect.
	Press button while lit.	Removes overall chorus effect.
POLYPHONY MODE	Press button, turn knob.	Sets timbre polyphony.
*POLYPHONY MODE	Hold down button, turn knob.	Changes polyphony mode. Display will step through available polyphony modes.
DYNAMIC ENVELOPE: LOW	Press once, turn knob.	Sets lowest dynamic level at which selected partial timbre will sound.
DYNAMIC ENVELOPE: HIGH	Press once, turn knob.	Sets highest dynamic level at which selected partial timbre will sound.

## Timbre Parameters

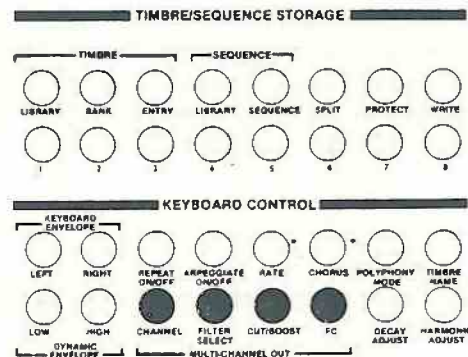
Three timbre parameter functions are also included on this panel. See the tabbed section "Timbre Design" for details on their use.



BUTTON	USE	FUNCTION
TIMBRE NAME	Hold down button, turn knob.	Selects letter of name to be changed. Selected letter will flash.
	Press button, turn knob.	Changes selected letter of name. Complete range of printable characters is available.
DECAY ADJUST	Press button, turn knob.	Sets final decay on lower notes.
HARMONIC ADJUST	Press button, turn knob.	Changes harmonic brilliance on upper vs. lower notes. Active only when FM is used.

## Multichannel Output

The multichannel output controls will be available in future releases.



BUTTON	USE	FUNCTION
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*CHANNEL	---	To be defined.
*FILTER SELECT	---	To be defined.
*CUT/BOOST	---	To be defined.
*FC	---	To be defined.

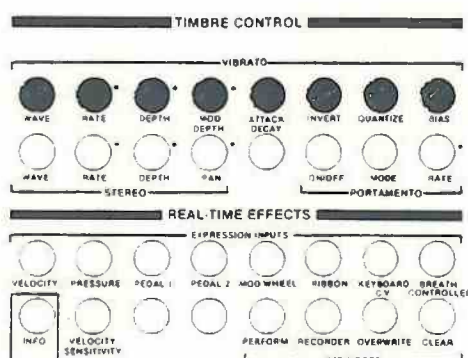


## PANEL 5: TIMBRE CONTROL

The timbre control buttons, on the upper half of the fifth panel, allow you to program selected partial timbres for vibrato, portamento, stereo and amplitude modulation. For details on all these buttons, see the section on adding special effects to partial timbres in the tabbed section "Timbre Design."

### VIBRATO Buttons

The VIBRATO buttons are used to select the vibrato waveform and set the vibrato rate and depth.



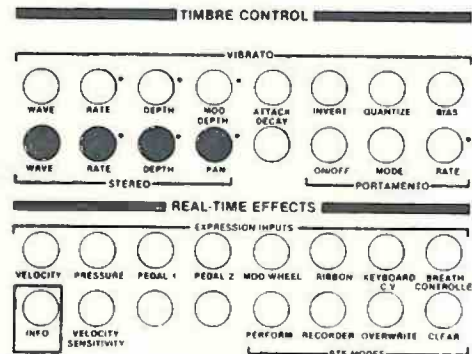
BUTTON	USE	FUNCTION
WAVE	Press once, turn knob; or repeatedly press button.	Selects vibrato wave shape. Display will indicate waveform.
RATE	Press once, turn knob.	Sets vibrato rate.
DEPTH	Press once, turn knob.	Sets vibrato depth.
MOD DEPTH	Press once, turn knob.	Sets vibrato depth of FM modulator channel only.



BUTTON	USE	FUNCTION
ATTACK/*DECAY	Press once, turn knob.	Changes attack or decay time of vibrato. Dial a positive number for attack, *a negative number for decay.
INVERT	Press once.	Toggles invert modifier on or off.
QUANTIZE	Press once.	Toggles quantize modifier on or off.
BIAS	Press once.	Toggles bias modifier on or off.

## STEREO Buttons

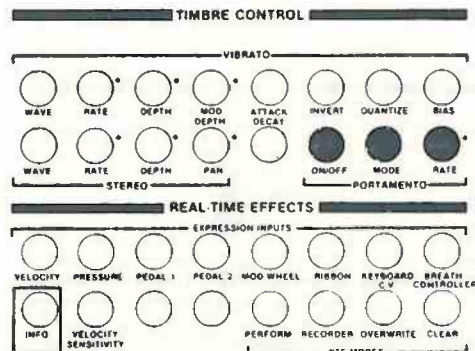
The STEREO buttons are used to control stereo panning if you have the stereo option. They are also used to control amplitude modulation.



BUTTON	USE	FUNCTION
WAVE	Press once, turn knob; or press repeatedly.	Selects stereo panning mode or waveform. Display indicates name. Modes 21-24 select amplitude modulation waveforms.
RATE	Press once, turn knob.	Changes stereo or AM panning rate. Applicable only in automatic pan modes.
DEPTH	Press once, turn knob.	Changes stereo or AM panning depth. Applicable only in dynamic pan modes.
PAN	Press once, turn knob.  Press button twice.	Changes stereo panning center position.  Resets stereo panning center to zero.

## PORTAMENTO Buttons

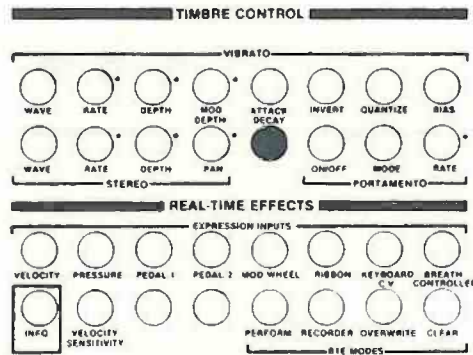
The PORTAMENTO buttons are used to add portamento to a selected partial timbre.



BUTTON	USE	FUNCTION
ON/OFF	Press once.	Toggles portamento on or off. When lit, portamento is on.
MODE	Press once.	Toggles portamento mode. When lit, mode is logarithmic, When not lit, mode is linear.
RATE	Press once, turn knob.	Sets portamento rate.

## PARTIAL CHORUS

The unlabeled button in the TIMBRE CONTROL section is used for Partial Chorus.



BUTTON	USE	FUNCTION
(unlabeled)	Press once, turn knob.	Establishes and tunes chorus effect for selected partial timbre(s).
	Press button while lit.	Removes chorus effect from selected partial timbre(s).

## PANEL 5: REAL-TIME EFFECTS

The REAL-TIME EFFECTS buttons allow you to determine the actions of the expression inputs. You can patch any of the 8 inputs to any of the 24 controllable parameters on any of the four partial timbres. The controllable parameters are indicated by the white dots next to the parameter buttons.

Each time you press an expression input button, it will light up. While it is held, the buttons of the partial timbres and timbre parameters to which the input is patched will light up.

There are three states for the 24 parameter buttons:

### Lit

Expression input is patched to parameter in normal mode so that the greater the input value, the closer to full programmed value for the parameter.

### Blinking

Expression input is patched to parameter in inverted mode so that the greater the input value, the further from full programmed value for the parameter.

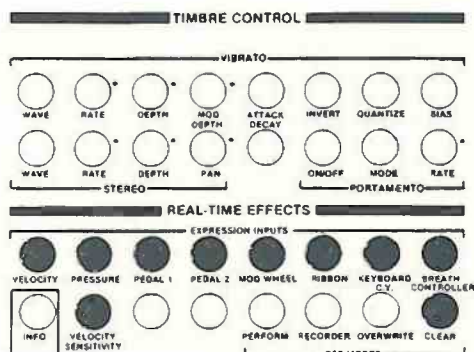
### Flickering (one brief flash per second).

Expression input available to be patched to parameter.

For details on using the real-time effects buttons, see the tabbed section "Keyboard Control and Real-Time Effects."

## EXPRESSION INPUT buttons

The EXPRESSION INPUT buttons control the programming of the expression input devices.

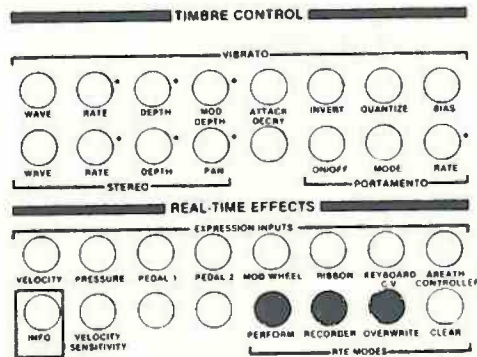


BUTTON	USE	FUNCTION
VELOCITY	Press and hold, then select partial timbre(s) and timbre parameter(s).	Sets up patching of velocity input.
PRESSURE	Press and hold, then select partial timbre(s) and timbre parameter(s).	Sets up patching of pressure input.
	Press and turn knob.	Sets response filter.
PEDAL1	Press and hold, then select partial timbre(s) and timbre parameter(s).	Sets up patching of pedal 1 input.
PEDAL2	Press and hold, then select partial timbre(s) and timbre parameter(s).	Sets up patching of pedal 2 input.
MOD WHEEL	Press and hold, then select partial timbre(s) and timbre parameter(s).	Sets up patching of inside control wheel input.

BUTTON	USE	FUNCTION
RIBBON	Press and hold, then select partial timbre(s) and timbre parameters.	Sets up patching of ribbon input.
	Press and turn knob.	Sets response filter.
KEYBOARD C.V.	Press and hold, then select partial timbre(s) and timbre parameter(s).	Sets up patching of keyboard control voltage input.
	Press and hold, then press two keys.	Lower key sets lower limit for keyboard control voltage; upper key sets maximum voltage for that key and above.
BREATH CONTROLLER	Press and hold, then select partial timbre(s) and timbre parameters.	Sets up patching of breath controller input.
VELOCITY SENSITIVITY	Press once, turn knob.	Sets velocity sensitivity parameter.
CLEAR	Press and hold, then press expression input button.	Clears all RTE patching from selected input.
	Press and hold, then press a PARTIAL TIMBRE SELECT button.	Clears all RTE patching to selected partial timbre.
	Press and hold, then press a timbre parameter button.	Clears all RTE patching to that parameter.
	Press and hold, then run finger across all expression input buttons.	Clears all patchings.

## Real-Time Effects Modes

These functions will be implemented in future releases.

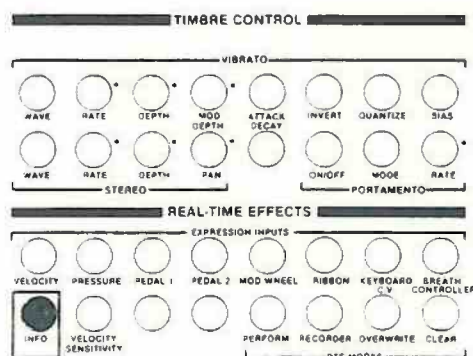


BUTTON	USE	FUNCTION
*MEMORIZE	----	To be defined.
*RECORDER	----	To be defined.
*OVERWRITE	----	To be defined.



## INFO Button

The boxed INFO button is presently used to give information on the memory recorder. In future releases, it will access an on-line HELP program.



BUTTON	USE	FUNCTION
INFO	Press once, then press TRACK SELECT button.	Plays first note of selected track, displays number of notes and name of timbre recorded on that track.
	Press again.	Turns off info mode.
	*Press and hold, then press any button on control panel.	Accesses on-line HELP program. Display gives information on selected button.